

**Amendments to the Claims:**

Please replace all prior claims versions and listings with the following:

**Listing of Claims:**

1. **(currently amended)** An optical fiber, comprising:  
  
a refractive index profile having  
  
a first moat with a negative delta ( $\Delta_2$ ),  
  
a second moat with a negative delta ( $\Delta_4$ ), and  
  
the refractive index profile is selected to provide  
  
a negative total dispersion at 1550 nm,  
  
a negative dispersion slope at 1550 nm, and  
  
a kappa value, defined as total dispersion divided by dispersion slope at 1550 nm,  
  
of less than 75 nm.
2. **(original)** The fiber of claim 1 further comprising  
  
a central core having a positive delta ( $\Delta_1$ ), and  
  
a ring surrounding the first moat having a positive delta ( $\Delta_3$ ).
3. **(original)** The fiber of claim 1 wherein the total dispersion at 1550 nm is more negative than about  $-40$  ps/nm/km.
4. **(original)** The fiber of claim 1 wherein the total dispersion at 1550 nm is more negative than  $-40$  and less negative than  $-400$  ps/nm/km.
5. **(original)** The fiber of claim 1 wherein the total dispersion at 1550 nm is more negative than about  $-140$  ps/nm/km.

6. **(original)** The fiber of claim 1 wherein the dispersion slope at 1550 nm is less than  $-0.75$  and greater than  $-8.50$  ps/nm<sup>2</sup>/km.
7. **(original)** The fiber of claim 1 wherein kappa at 1550 nm is between about 40 and 75 nm.
8. **(original)** The fiber of claim 1 including a pin array bend loss at 1550 nm of less than 9 dB.
9. **(original)** The fiber of claim 1 wherein a central core has a delta ( $\Delta 1$ ) of less than 2.0 %.
10. **(original)** The fiber of claim 9 wherein an outer core radius (R1) of the central core is between about 1.2 and 3.1 microns.
11. **(original)** The fiber of claim 9 wherein the central core has an alpha ( $\alpha$ ) of less than about 6.
12. **(original)** The fiber of claim 1 wherein delta ( $\Delta 2$ ) of the first moat is less than -0.2%.
13. **(original)** The fiber of claim 12 wherein an outer radius (R2) of the first moat is located between about 4.5 and 10.6 microns.
14. **(original)** The fiber of claim 1 wherein delta ( $\Delta 4$ ) of the second moat is less than -0.05 %.
15. **(withdrawn)** The fiber of claim 14 wherein an outer radius (R5) of the second moat is between about 19.5 and 37.5 microns.

16. **(withdrawn)** An optical transmission line, wherein the fiber as set forth in claim 1 is a dispersion compensating fiber optically coupled to a transmission fiber, the transmission fiber having:

- a total dispersion between 2 and 6 ps/nm/km at 1550 nm, and
- a positive dispersion slope of less than  $0.092 \text{ ps/nm}^2/\text{km}$  at 1550 nm.

17. **(withdrawn)** The line of claim 16 wherein the transmission fiber comprises a kappa value, defined as total dispersion at 1550 nm divided by dispersion slope at 1550 nm, of between 40 and 75 nm.

18. **(withdrawn)** The line of claim 16 wherein a High-to-Low residual dispersion for the transmission line over an entire C band having a wavelength range from 1525 nm to 1565 nm is less than 50 ps/nm for a 100 km length of transmission fiber.

19. **(withdrawn)** The line of claim 16 wherein the dispersion compensating fiber is optically coupled to a trim fiber which has:

- a total dispersion between 14 and 21 ps/nm/km at 1550 nm, and
- a positive dispersion slope of between  $0.04$  and  $0.07 \text{ ps/nm}^2/\text{km}$  at 1550 nm.

20. **(withdrawn)** A dispersion compensation fiber, comprising:

a refractive index profile including

- a central core having a positive core delta ( $\Delta 1$ ) less than 2.0% and an outer radius (R1) between 1.2 and 3.1 microns,
- a first moat having a moat delta ( $\Delta 2$ ) more negative than -0.2 % and an outer radius (R2) of between 4.5 and 10.6 microns,
- a ring having a positive ring delta ( $\Delta 3$ ) greater than 0.2 % and a center radius (R3) of between 6.5 and 12.0 microns, and
- a second moat having a delta ( $\Delta 4$ ) less than -0.05% and an outer radius (R5) between 19.5 and 37.5 microns;

the refractive index profile selected to provide  
a total dispersion less than  $-40$  and greater than  $-400$  ps/nm/km at 1550 nm;  
a dispersion slope of between  $-0.75$  and  $-8.5$  ps/nm<sup>2</sup>/km at 1550 nm; and  
kappa, defined as total dispersion at 1550 nm divided by dispersion slope at 1550  
nm, of greater than 40 and less than 75 nm.